



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANTS : Dongmao ZHANG et al.
SERIAL NO. : 10/821,231
FILED : April 8, 2004
FOR : Process and Apparatus for Segregation and Testing by Spectral
Analysis of Solid Deposits Derived from Liquid Mixtures

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**REVOCATION OF POWER OF ATTORNEY
AND APPOINTMENT OF SUBSTITUTE COUNSEL**

Purdue Research Foundation is the owner of 100% interest in the above-referenced patent application by virtue of an assignment document, copy attached.

As owner of the entire right, title and interest to the above-identified U.S. patent application, Purdue Research Foundation has revoked and hereby revokes all previous powers of attorney, and has appointed and hereby appoints R. Neil Sudol, Reg. No. 31,669, Henry D. Coleman, Reg. No. 32,559, and William J. Sapone, Reg. No. 32,518, as its attorneys with full power of substitution and revocation to prosecute the above-identified application and transact all business in the Patent and Trademark Office connected therewith.

Please address all future correspondence regarding this application to:

R. Neil Sudol
COLEMAN SUDOL SAPONE, P.C.
714 Colorado Avenue
Bridgeport, Connecticut 06605-1601
Deposit Account No. 04-0838

Direct all telephone calls to R. Neil Sudol at (203) 366-3560

Respectfully submitted,
Purdue Research Foundation

By: Judith A. Hall

Name: Judith A. Hall

Position: Corporate Secretary

Dated: June 13, 2007

ASSIGNMENT

WHEREAS, we, Dongmao ZHANG, a citizen of the People's Republic of China, Dor BEN-AMOTZ, a citizen of the United States of America, Yong XIE, a citizen of the People's Republic of China, Vincent J. DAVISSON, a citizen of the United States of America, Melissa MROZEK, a citizen of the United States of America and Corasi ORTIZ, a citizen of the United States of America, residing at 2901 Manchester Street, West Lafayette, In 47906 ; 3275 West 450 North, West Lafayette, IN 47906 US; 147 Arnold Drive, Apt. 13, West Lafayette, IN 47906 US; 434 Littleton Street, West Lafayette, IN 47906 US; ~~300 C Ravenwood Lane, Lafayette, IN 47909 US~~ ^{11874 Siena Ct., Moorpark, CA 93021 US MM 05/02/07} and 3422 Cheswick Court, Apt. D4, West Lafayette, IN 47906 US, respectively, have invented new and useful improvements in **"PROCESS AND APPARATUS FOR SEGREGATION AND TESTING BY SPECTRAL ANALYSIS OF SOLID DEPOSITS DERIVED FROM LIQUID MIXTURES"** for which we filed United States patent application serial number 10/821,231 on April 8, 2004 and international application number PCT/US2004/010834 in the United States Patent and Trademark Office on April 9, 2004, said applications claiming priority from five provisional applications, serial number 60/462,083 filed April 11, 2003, serial number 60/462,472 filed April 11, 2003, serial number 60/490,057 filed July 25, 2003, serial number 60/551,311 filed March 8, 2004 and serial number 60/554,701 filed March 19, 2004. (Hereinafter these seven applications are referred to as "the applications".)

WHEREAS, PURDUE RESEARCH FOUNDATION, (hereafter, "PURDUE") having an office and principal place of business at 3000 Kent Avenue, West Lafayette, IN 47906 US, has acquired and is desirous of acquiring the entire right, title and interest in and to the application and invention therein described and claimed and any Letters Patent which may be issued upon the application or for improvements therein contained.

Now, THEREFORE, in consideration of good and valuable considerations, to us in hand paid, the receipt and sufficiency of which are hereby acknowledged, we, Dongmao ZHANG, Dor BEN-AMOTZ, Yong XIE, Vincent J. DAVISSON, Melissa MROZEK and Corasi ORTIZ, have sold, assigned and transferred and do hereby sell, assign and transfer unto said PURDUE, its successors and assigns, our entire right, title and interest in and to the application and to the

invention therein disclosed and the entire right, title and interest in and to any Letters Patent which may issue thereon, and the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, including all national stage, divisional, renewal, substitute and continuation applications based in whole or in part upon said invention, or upon any and all Letters Patents that may issue thereon, and every priority right that is or may be predicated upon or arise from said invention, the same to be held and enjoyed by said PURDUE, for its own use and enjoyment and for the use and enjoyment of its successors and assigns, to the full end of the term for which any said Letters Patent are granted, as fully and as entirely as the same would have been held and enjoyed by us had this Assignment and sale not been made.

And we hereby authorize said PURDUE to file patent applications in any or all other countries on said invention in our name or in the name of said PURDUE or otherwise as said PURDUE may deem advisable.

And we hereby authorize the empowered officials of all governments to issue or transfer any said Letters Patent granted, to said PURDUE, as assignee of the entire right, title and interest therein or otherwise as said PURDUE may direct, in accordance with this instrument or assignment.

In further consideration of said good and valuable considerations, we, Dongmao ZHANG, Dor BEN-AMOTZ, Yong XIE, Vincent J. DAVISSON, Melissa MROZEK and Corasi ORTIZ, further represent and warrant to said PURDUE, its successors and assigns, that there are no rights and interests outstanding inconsistent with the rights and interests granted herein and that we have not executed any instrument or granted or transferred any rights or interests inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent herewith, and we bind executors, administrators and legal representatives, as the case may be, to execute and deliver to said PURDUE, its successors and assigns, and we hereby irrevocably appoint said PURDUE as our true and lawful attorney-in-fact on our and its behalf and in our and/or its name, place and stead to execute, any further documents or instruments and do any and all further acts that may be deemed necessary or

desirable by said PURDUE, its successors and assigns, to vest in said PURDUE, its successors and assigns, the title whose conveyance is made hereby, and to enable such title to be recorded in the United States and all other countries, and to enable said PURDUE to sustain or reissue any said Letters Patent granted, and to maintain, perfect, support and protect the right, title and interest of said PURDUE, its successors and assigns, in and to the said invention, and any Letters Patent granted, particularly in cases of interference and litigation.

And we further covenant and agree, in consideration of the premises, that we, our executors and administrators, will at any time upon request of said PURDUE, its successors or assigns, and at its expense, communicate to said PURDUE, its successors and assigns, any facts relating to the invention and improvements and the history thereof, known to us or our heirs, executors, administrators or legal representatives, and that we will testify as to the same in any interference, or other litigation when requested to do so by said PURDUE, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2007.

Dongmao Zhang

STATE OF)
) ss.:
CITY OF)

On this _____ day of _____, 2007 before me personally appeared Dongmao Zhang, to me known and known to me to be the individual described in the foregoing instrument, and he duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein set forth.

Notary Public
My Commission Expires:

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 24th day of April, 2007.

Dor Ben-Amotz
Dor Ben-Amotz

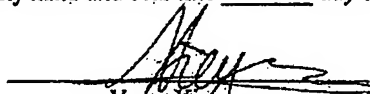
STATE OF)
) ss.:
CITY OF)

On this 24th day of April, 2007, before me personally appeared Dor Ben-Amotz, to me known and known to me to be the individual described in the foregoing instrument, and he duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein set forth.

JENNY C. KELLY, Notary Public
Resident of Tippecanoe County
My Commission Expires: August 24, 2013

[Signature]
Notary Public
My Commission Expires:

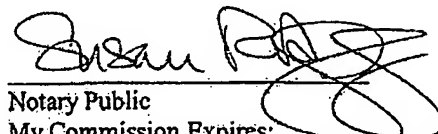
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 23rd day of May, 2007.


Yong Xie

STATE OF)
) ss.:
CITY OF)

On this 23rd day of May, 2007 before me personally appeared Yong Xie, to me known and known to me to be the individual described in the foregoing instrument, and he duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein set forth.




Notary Public
My Commission Expires:

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2007.

Vincent J. Davisson

STATE OF)
) ss.:
CITY OF)

On this _____ day of _____, 2007, before me personally appeared Vincent J. Davisson, to me known and known to me to be the individual described in the foregoing instrument, and he duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein set forth.

Notary Public
My Commission Expires:

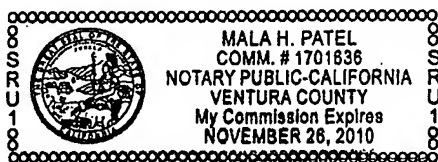
IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 2nd day of

May, 2007.

Melissa Mrozek (Formerly Melissa Mrozek)
Melissa Mrozek

STATE OF) CALIFORNIA
COUNTY) ss.: VENTURA
CITY OF)

On this 2 day of MAY, 2007 before me personally appeared Melissa Mrozek, to me known and known to me to be the individual described in the foregoing instrument, and he duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein set forth.



Mala H. Patel
Notary Public
My Commission Expires: NOV. 26, 2010

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this _____ day of _____, 2007.

Corasi Ortiz

STATE OF)
) ss.:
CITY OF)

On this _____ day of _____, 2007, before me personally appeared Corasi Ortiz, to me known and known to me to be the individual described in the foregoing instrument, and he duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me that he executed the same for the purpose therein set forth.

Notary Public
My Commission Expires:

ASSIGNMENT

WHEREAS, we, Dongmao ZHANG, a citizen of the People's Republic of China, Dor BEN-AMOTZ, a citizen of the United States of America, Yong XIE, a citizen of the People's Republic of China, Vincent J. DAVISSON, a citizen of the United States of America, Melissa MROZEK, a citizen of the United States of America and Corasi ORTIZ, a citizen of the United States of America, residing at ~~2901 Manchester Street, West Lafayette, IN 47906~~ ^{4707 pin oak park Dr. apt. 1011, Houston, TX 77081}; 3275 West 450 North, West Lafayette, IN 47906 US; 147 Arnold Drive, Apt. 13, West Lafayette, IN 47906 US; 434 Littleton Street, West Lafayette, IN 47906 US; 300-C Ravenwood Lane, Lafayette, IN 47909 US and 3422 Cheswick Court, Apt. D4, West Lafayette, IN 47906 US, respectively, have invented new and useful improvements in "PROCESS AND APPARATUS FOR SEGREGATION AND TESTING BY SPECTRAL ANALYSIS OF SOLID DEPOSITS DERIVED FROM LIQUID MIXTURES" for which we filed United States patent application serial number 10/821,231 on April 8, 2004 and international application number PCT/US2004/010834 in the United States Patent and Trademark Office on April 9, 2004, said applications claiming priority from five provisional applications, serial number 60/462,083 filed April 11, 2003, serial number 60/462,472 filed April 11, 2003, serial number 60/490,057 filed July 25, 2003, serial number 60/551,311 filed March 8, 2004 and serial number 60/554,701 filed March 19, 2004. (Hereinafter these seven applications are referred to as "the applications".)

DM2
4/30/07

WHEREAS, PURDUE RESEARCH FOUNDATION, (hereafter, "PURDUE") having an office and principal place of business at 3000 Kent Avenue, West Lafayette, IN 47906 US, has acquired and is desirous of acquiring the entire right, title and interest in and to the application and invention therein described and claimed and any Letters Patent which may be issued upon the application or for improvements therein contained.

Now, THEREFORE, in consideration of good and valuable considerations, to us in hand paid, the receipt and sufficiency of which are hereby acknowledged, we, Dongmao ZHANG, Dor BEN-AMOTZ, Yong XIE, Vincent J. DAVISSON, Melissa MROZEK and Corasi ORTIZ, have sold, assigned and transferred and do hereby sell, assign and transfer unto said PURDUE, its successors and assigns, our entire right, title and interest in and to the application and to the

invention therein disclosed and the entire right, title and interest in and to any Letters Patent which may issue thereon, and the right to apply for any Letters Patent in the United States of America and in any and all foreign countries on said invention, including all national stage, divisional, renewal, substitute and continuation applications based in whole or in part upon said invention, or upon any and all Letters Patents that may issue thereon, and every priority right that is or may be predicated upon or arise from said invention, the same to be held and enjoyed by said PURDUE, for its own use and enjoyment and for the use and enjoyment of its successors and assigns, to the full end of the term for which any said Letters Patent are granted, as fully and as entirely as the same would have been held and enjoyed by us had this Assignment and sale not been made,

And we hereby authorize said PURDUE to file patent applications in any or all other countries on said invention in our name or in the name of said PURDUE or otherwise as said PURDUE may deem advisable.

And we hereby authorize the empowered officials of all governments to issue or transfer any said Letters Patent granted, to said PURDUE, as assignee of the entire right, title and interest therein or otherwise as said PURDUE may direct, in accordance with this instrument or assignment.

In further consideration of said good and valuable considerations, we, Dongmao ZHANG, Dor BEN-AMOTZ, Yong XIE, Vincent J. DAVISSON, Melissa MROZEK and Corasi ORTIZ, further represent and warrant to said PURDUE, its successors and assigns, that there are no rights and interests outstanding inconsistent with the rights and interests granted herein and that we have not executed any instrument or granted or transferred any rights or interests inconsistent with the rights and interests granted herein and that we will not execute any instrument or grant or transfer any rights or interests inconsistent herewith, and we bind executors, administrators and legal representatives, as the case may be, to execute and deliver to said PURDUE, its successors and assigns, and we hereby irrevocably appoint said PURDUE as our true and lawful attorney-in-fact on our and its behalf and in our and/or its name, place and stead to execute, any further documents or instruments and do any and all further acts that may be deemed necessary or

desirable by said PURDUE, its successors and assigns, to vest in said PURDUE, its successors and assigns, the title whose conveyance is made hereby, and to enable such title to be recorded in the United States and all other countries, and to enable said PURDUE to sustain or reissue any said Letters Patent granted, and to maintain, perfect, support and protect the right, title and interest of said PURDUE, its successors and assigns, in and to the said invention, and any Letters Patent granted, particularly in cases of interference and litigation.

And we further covenant and agree, in consideration of the premises, that we, our executors and administrators, will at any time upon request of said PURDUE, its successors or assigns, and at its expense, communicate to said PURDUE, its successors and assigns, any facts relating to the invention and improvements and the history thereof, known to us or our heirs, executors, administrators or legal representatives, and that we will testify as to the same in any interference, or other litigation when requested to do so by said PURDUE, its successors and assigns.

APR. 30. 2007 2:17PM

RICE UNIV. ECE DEPT.

NO. 764

P. 5/5

IN TESTIMONY WHEREOF, I have hereunto set my hand and seal this 30 day of
April, 2007.

Dongmao Zhang
Dongmao Zhang

STATE OF) Texas
) ss.:
CITY OF) Houston

On this 30 day of April, 2007 before me personally appeared Dongmao Zhang, to
me known and known to me to be the individual described in the foregoing instrument, and he
duly acknowledged to me that he executed the foregoing instrument, and he acknowledged to me
that he executed the same for the purpose therein set forth.

Karen Hyde 4.30.07
Notary Public
My Commission Expires:

